Emma R Master

List of Publications by Year
in descending order

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27	705	516215 16	552369 26
papers	citations	h-index	g-index

28	28	28	1090
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pretreatment of pulp mill secondary sludge for high-rate anaerobic conversion to biogas. Bioresource Technology, 2009, 100, 5729-5735.	4.8	70
2	A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. Biotechnology for Biofuels, 2018, 11, 74.	6.2	53
3	Biochemical studies of the multicopper oxidase (small laccase) from <scp>S</scp>treptomyces coelicolor using bioactive phytochemicals and siteâ€directed mutagenesis. Microbial Biotechnology, 2013, 6, 588-597.	2.0	50
4	Expression and regulation of genes encoding lignocellulose-degrading activity in the genus Phanerochaete. Applied Microbiology and Biotechnology, 2012, 94, 339-351.	1.7	47
5	Proteomic characterization of lignocellulose-degrading enzymes secreted by Phanerochaete carnosa grown on spruce and microcrystalline cellulose. Applied Microbiology and Biotechnology, 2010, 86, 1903-1914.	1.7	46
6	Elucidation of the Molecular Basis for Arabinoxylan-Debranching Activity of a Thermostable Family GH62 Î±- <scp>l</scp> -Arabinofuranosidase from Streptomyces thermoviolaceus. Applied and Environmental Microbiology, 2014, 80, 5317-5329.	1.4	44
7	Xylo- and cello-oligosaccharide oxidation by gluco-oligosaccharide oxidase from Sarocladium strictumand variants with reduced substrate inhibition. Biotechnology for Biofuels, 2013, 6, 148.	6.2	39
8	Constitutive expression of a fungal glucuronoyl esterase in Arabidopsis reveals altered cell wall composition and structure. Plant Biotechnology Journal, 2012, 10, 1077-1087.	4.1	32
9	Biocatalytic Production of Amino Carbohydrates through Oxidoreductase and Transaminase Cascades. ChemSusChem, 2019, 12, 848-857.	3.6	32
10	Advancing lignocellulose bioconversion through direct assessment of enzyme action on insoluble substrates. Current Opinion in Biotechnology, 2014, 27, 123-133.	3.3	29
11	Substrate recognition and hydrolysis by a fungal xyloglucan-specific family 12 hydrolase. Carbohydrate Research, 2009, 344, 1175-1179.	1.1	28
12	Altered substrate specificity of the glucoâ€oligosaccharide oxidase from Acremonium strictum. Biotechnology and Bioengineering, 2011, 108, 2261-2269.	1.7	19
13	Sequence diversity and gene expression analyses of expansin-related proteins in the white-rot basidiomycete, Phanerochaete carnosa. Fungal Genetics and Biology, 2014, 72, 115-123.	0.9	19
14	Debranching of soluble wheat arabinoxylan dramatically enhances recalcitrant binding to cellulose. Biotechnology Letters, 2015, 37, 633-641.	1.1	18
15	Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2398-2405.	1.1	18
16	Mode of coniferous wood decay by the white rot fungus Phanerochaete carnosa as elucidated by FTIR and ToF-SIMS. Applied Microbiology and Biotechnology, 2012, 94, 1303-1311.	1.7	17
17	Comparative analysis of lignin peroxidase and manganese peroxidase activity on coniferous and deciduous wood using ToF-SIMS. Applied Microbiology and Biotechnology, 2016, 100, 8013-8020.	1.7	17
18	Action of a GH115 Î±-glucuronidase from Amphibacillus xylanus at alkaline condition promotes release of 4- O -methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. Enzyme and Microbial Technology, 2017, 104, 22-28.	1.6	17

#	Article	IF	Citations
19	Enhancement of acetyl xylan esterase activity on cellulose acetate through fusion to a family 3 cellulose binding module. Enzyme and Microbial Technology, 2015, 79-80, 27-33.	1.6	15
20	Dynamics of the Phanerochaete carnosa transcriptome during growth on aspen and spruce. BMC Genomics, 2018, 19, 815.	1.2	15
21	Atypical lignification in eastern leatherwood (Dirca palustris). New Phytologist, 2020, 226, 704-713.	3.5	15
22	Enhanced Polysaccharide Binding and Activity on Linear Î²-Glucans through Addition of Carbohydrate-Binding Modules to Either Terminus of a Glucooligosaccharide Oxidase. PLoS ONE, 2015, 10, e0125398.	1.1	15
23	Mining bacterial genomes for novel arylesterase activity. Microbial Biotechnology, 2010, 3, 677-690.	2.0	12
24	Influence of a family 29 carbohydrate binding module on the activity of galactose oxidase from Fusarium graminearum. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 354-362.	1.1	12
25	Pichia pastoris is a Suitable Host for the Heterologous Expression of Predicted Class I and Class II Hydrophobins for Discovery, Study, and Application in Biotechnology. Microorganisms, 2018, 6, 3.	1.6	12
26	A family AA5_2 carbohydrate oxidase from Penicillium rubens displays functional overlap across the AA5 family. PLoS ONE, 2019, 14, e0216546.	1.1	10
27	PACER: a novel 3D plant cell wall model for the analysis of non-catalytic and enzymatic responses. , 2022, 15, 30.		4